



Fig. 2

	Ex. 1	Ex. 2	Ex. 3	Ex. 4	Ex. 5	Ex. 6	Ex. 7	Ex. 8	Ex. 9	Comparative Ex. 1	Comparative Ex. 2	Comparative Ex. 3	Comparative Ex. 4	Comparative Ex. 5	Comparative Ex. 6
Electric conductivity ( $\mu$ S/cm)	2.90	5.0	2.1	5.3	3.6	3.5	5.0	3.2	4.4	5950	3.5	1.6	1.8	286	0.88
Metal corrosion resistance Air	0.01	-0.04	0.04	-0.02	-0.03	0.00	-	-	-0.02	-0.12	-0.12	-	-0.52	0.10	
n=2 Quantity of corrosion of Al( $\text{mg}/\text{cm}^2$ )	-0.01	-0.04	0.15	0.01	-0.02	-0.01	-0.02	-	-	-0.03	-0.10	-0.09	-	-0.43	0.10
Metal corrosion resistance $N_2$	0.00	-	0.04	-	-	-	-	-	-	-	-	0.02	-	-	-
n=2 Quantity of corrosion of Al( $\text{mg}/\text{cm}^2$ )	-0.01	-	0.05	-	-	-	-	-	-	-	-	0.04	-	-	-
Passivation current density $N_2$	4.8	11	2.4	(7)	(15)	(16)	(60)	(80)	3.0	(100)	(100)	(100)	76	-	-
( $\mu\text{A}/\text{cm}^2$ )															
Passivation current density Air	2.4	12	2.4	-	-	-	-	-	-	3.0	2.0	1.3	-	210	-
( $\mu\text{A}/\text{cm}^2$ )															
Freezing point (°C)	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-	0	0